

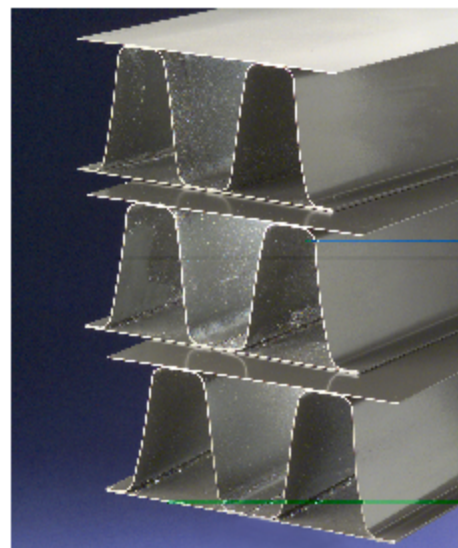
Fabrication Processes for Intermetallic Materials (TiAl)



BF Goodrich Aerospace and Pratt & Whitney

TECHNOLOGY

Developed fabrication processes of the intermetallic alloy material titanium aluminide (TiAl) reduce production cost without degrading its best features.



Titanium aluminide truss core segments

COMMERCIAL APPLICATION

- ◆ Improved performance of aerospace planes
- ◆ Automotive applications in high-end, high-performance cars
- ◆ The process allows for potential commercial use in high-speed civil transport aircraft engines.

SOCIAL / ECONOMIC BENEFIT

- ◆ Reduces production costs of TiAl
- ◆ Easy to implement with today's production equipment
- ◆ Can produce more fuel-efficient cars.

NASA APPLICATIONS

- ◆ The use of this new material system will support the potential use of TiAl components for next generation space-vehicles such as the reusable launch vehicle, VentureStar